

Project Title
Automatic Baby Bed Using Arduino Uno

Project By:

Guided By:

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TEAM NO: 11

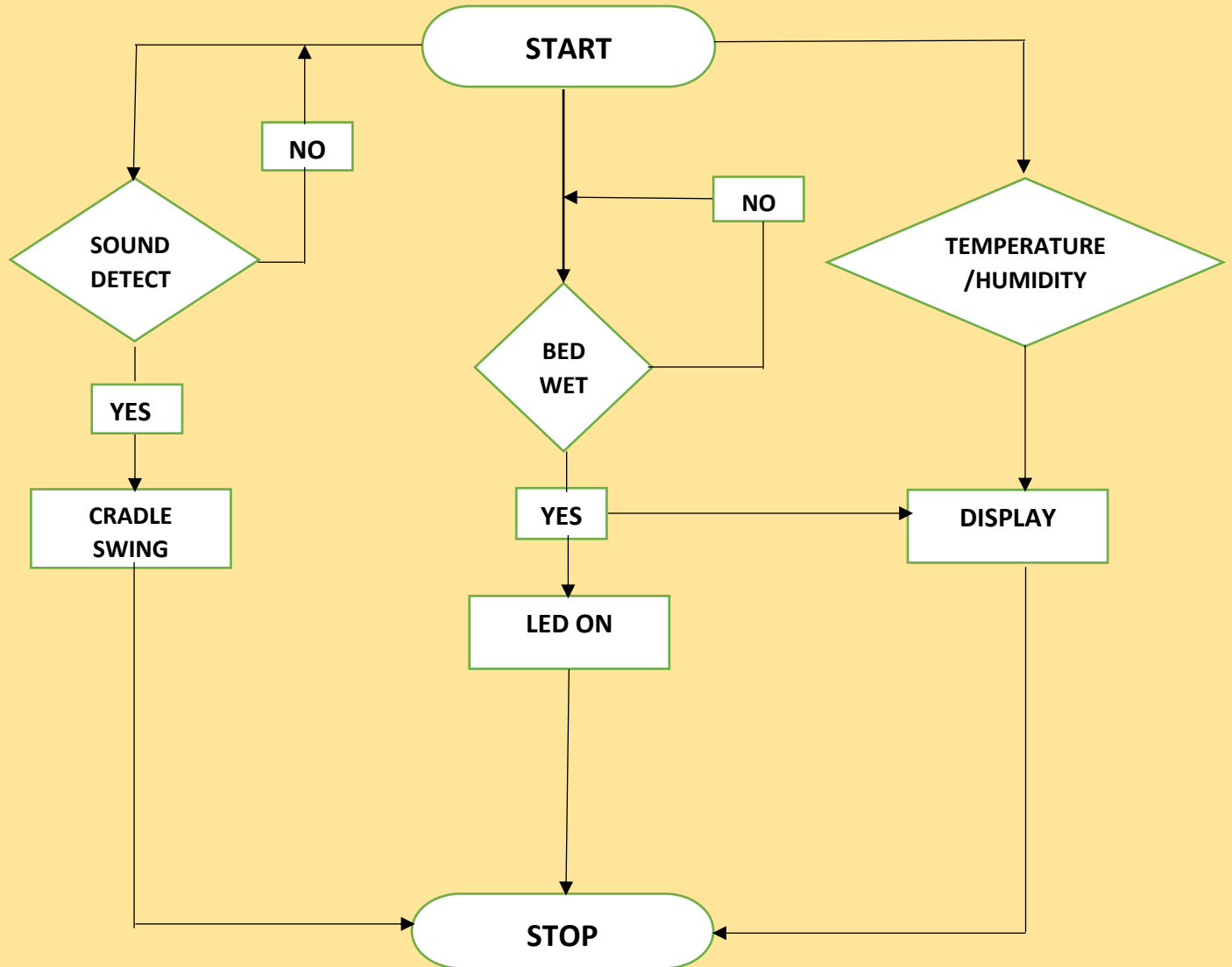
PROJECT SPECIFICATION

- The baby cradle which is manually designed does not required any high power supply to operate.
- There are many manual baby cradle design available in the market but this is automatic design manual baby cradle.
- It is automatic swinging cradle as well as it also check temperature and humidity.
It detect the condition whether baby is dry or wet.

HARDWARE REQUIRED

- Arduino Uno Board
- Servo Motor
- Wet Sensor
- Sound Sensor
- Humidity and Temperature Sensor
- Jumper Wires
- Led
- Buzzer

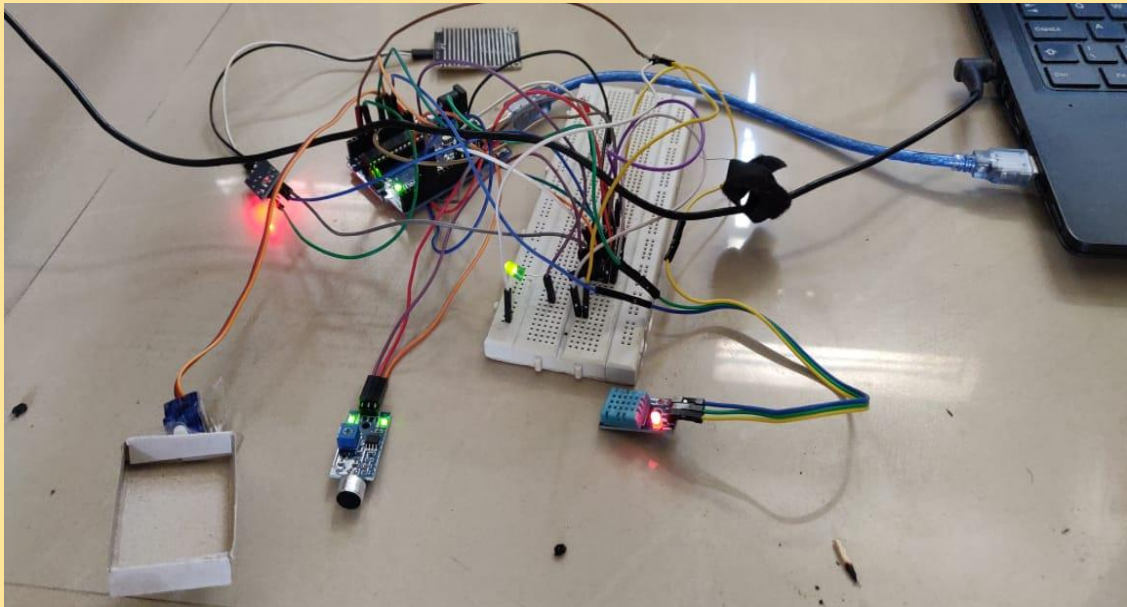
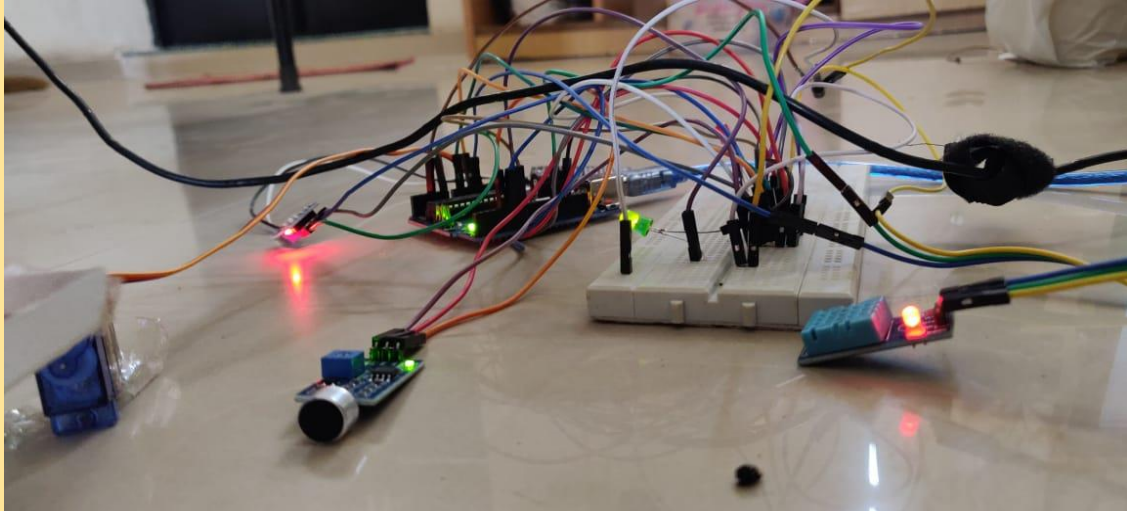
FLOWCHART



FEATURES

- Low cost And Small size
- Easy to Use And Widely Available
- Easy to Interface
- Detecting Range 10 cm to 80 cm
- Response Time - 50ms
- Dissipation Current – 35mA
- Supply Voltage – 2 to 7 Volt

FINAL PROJECT



OUTPUT OF THE PROJECT

```
15:41:59.640 -> 524 - It's dry
15:42:01.163 -> 12.00 38.50
15:42:03.138 -> 558 - It's dry
15:42:04.660 -> 13.00 38.30
15:42:06.652 -> 605 - It's dry
15:42:08.172 -> 13.00 38.20
15:42:10.182 -> 648 - It's dry
15:42:11.714 -> 13.00 38.20
15:42:13.689 -> 684 - It's dry
15:42:15.221 -> 27.00 38.10
15:42:17.216 -> 714 - It's dry
15:42:18.706 -> 38.00 38.00
15:42:20.722 -> 747 - It's dry
15:42:22.254 -> 49.00 38.00
15:42:24.236 -> 782 - It's dry
15:42:25.767 -> 55.00 37.70
15:42:27.783 -> 796 - It's dry
15:42:29.246 -> 58.00 37.50
15:42:31.247 -> 813 - It's dry
15:42:32.798 -> 54.00 37.30
15:42:34.788 -> 838 - It's dry
15:42:36.280 -> 42.00 37.10
15:42:38.301 -> 852 - It's dry
15:42:39.805 -> 32.00 36.50
15:42:41.824 -> 868 - It's dry
15:42:43.310 -> 26.00 36.80
15:42:45.304 -> 881 - It's dry
15:42:46.836 -> 22.00 37.70
```

☒ Autoscroll ☒ Show timestamp

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```
15:42:29.246 -> 58.00 37.50
15:42:31.247 -> 813 - It's dry
15:42:32.798 -> 54.00 37.30
15:42:34.788 -> 838 - It's dry
15:42:36.280 -> 42.00 37.10
15:42:38.301 -> 852 - It's dry
15:42:39.805 -> 32.00 36.50
15:42:41.824 -> 868 - It's dry
15:42:43.310 -> 26.00 36.80
15:42:45.304 -> 881 - It's dry
15:42:46.836 -> 22.00 37.70
15:42:48.850 -> 892 - It's dry
15:42:50.343 -> 26.00 38.00
15:42:52.329 -> 904 - It's dry
15:42:53.861 -> 22.00 38.80
15:42:55.865 -> 904 - It's dry
15:42:57.355 -> 22.00 40.50
15:42:59.370 -> 902 - It's dry
15:43:00.863 -> 21.00 42.60
15:43:02.897 -> 782 - It's dry
15:43:04.398 -> 17.00 44.50
15:43:06.411 -> 716 - It's dry
```

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CONCLUSION

- In the present study an intelligent baby cradle system was developed. The cradle was capable of detecting the movement of the baby and initiate cradle swing.
- Also it is capable to detect whether the baby's cloths are dry or not.
- This automatic smart cradle also check the baby temperature and humidity around it and display to you.

APPLICATION & ADVANTAGES

- It is widely used in hospital and home
- The cost of making this project is just around 1200 - 1500.
- So all can afford the baby cradle.
- This helpful the mothers who is housewife and also she has to take care of her baby.

FUTURE SCOPE

- In future we can add more feature to make it more efficient and effortless for the users.
- Like we will make it fully automatic baby cradle and monitoring system.
- We will use the GSM technology to detect the actual position of the baby.
- We will make the cradle to fully IOT based project to know every movement and every action which will take by the baby.

THANK YOU

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